

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/19/00  
Date Received: 01/13/00  
Project: Metro Self Monitor, M63348  
Date Extracted: 01/18/00  
Date Analyzed: 01/19/00

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A**

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M63348	0.29	0.30	0.30	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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Date of Report: 01/19/00

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**QUALITY ASSURANCE RESULTS  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 001056-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.29	0.31	7	0-20
Copper	mg/L (ppm)	0.30	0.32	7	0-20
Nickel	mg/L (ppm)	0.30	0.33	10	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 001056-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.29	101	102	80-120	1
Copper	mg/L (ppm)	5	0.30	91	89	80-120	2
Nickel	mg/L (ppm)	10	0.30	102	105	80-120	3
Zinc	mg/L (ppm)	5	<0.05	110	117	80-120	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	97	99	80-120	2
Copper	mg/L (ppm)	5	95	97	80-120	2
Nickel	mg/L (ppm)	10	99	101	80-120	2
Zinc	mg/L (ppm)	5	102	102	80-120	0

(CJ 1.13.2k AI)

285-8282  
001056

## SAMPLE CHAIN OF CUSTODY

Send Report To:

Company ALASKAN Copper Works Contact General A. Thompson  
Address 628 Harvard St  
City, State, Zip Seattle WA  
Phone # 206-382-8778 FAX # 206-382-4304 Date 1-13-00

SITE NO.

PROJECT NAME

PURCHASE ORDER #

738	metro sold marton	m 63348
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SAMPLERS (signature)

### PROJECT LOCATION

	3200 6th Ave S.
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REMARKS

### SAMPLE DISPOSAL INFORMATION

- ☐ Dispose after 30 days
- ☒ Return Samples
- ☐ Call for Instructions

[illegible]

~~SIGNATURE~~

PRINT NAME

COMPANY

Date \_\_\_\_\_

Time

~~Relinquished by:~~

GEORGE A. THOMPSON

ACH

1/13/00

12:45pm

Received by:

S - obor N

F & B, Inc.

1/13/2R

1:15

Relinquished by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

January 19, 2000

DUPLICATE COPY

INVOICE #00ACU0119-1

Accounts Payable  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

RE: Project Metro Self Monitor, M63348: Results of testing requested by Gerry  
Thompson  
January 19, 2000.

1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

January 19, 2000

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

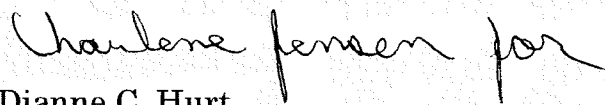
Dear Mr. Thompson:

Included are the results from the testing of material submitted on January 13, 2000 from your Metro Self Monitor, M63348 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

  
Dianne C. Hurt  
Project Manager

Enclosures  
ACU0119R.DOC